

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

19146-002001

Application No.

10/699,555

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant

Beth Marcus, et al

Filing Date

October 31, 2003

Group Art Unit

2673

37 CFR § 1.98(b)

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RO	AA	5,365,589	11/15/1994	Howard A. Gutowitz			
	AB	5,432,510	7/11/1995	Walter S. Matthews			
	AC	5,782,642	7/21/1998	Michael Goren			
	AD	6,115,028	9/5/2000	Balakrishnan et al.			
	AE	6,219,731	4/17/2001	Howard A. Gutowitz			
	AF	6,228,709	5/8/2001	Wen-Yi Hsieh			
	AG	6,512,511	1/28/2003	Willner et al.			
	AH	6,573,844	6/3/2003	Venolia et al.			
	AI	6,606,486	8/12/2003	Cubbage et al.			
	AJ	6,654,733	11/25/2003	Goodman et al.			
	AK	6,703,963	3/9/2004	Timothy B. Higginson			
	AL	6,738,045	5/18/2004	Hinkley et al.			
	AM	6,741,235	5/25/2004	Michael Goren			
	AN	6,760,013	7/6/2004	Willner et al.			
	AO	6,865,718	3/8/2005	Levi Montalcini			
	AP	6,885,317	4/26/2005	Howard A. Gutowitz			
	AQ	6,885,318	4/26/2005	Matthew J. Bickerton			
	AR	6,911,608	6/28/2005	David H. Levy			
	AS	6,980,200	12/27/2005	Michael Goren			
V	AT	RE37723	6/4/2002	Michael Goren			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AU							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
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Examiner Signature

/Ricardo Osorio/

Date Considered

10/01/2006

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 19146-002001	Application No. 10/699,555
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Beth Marcus, et al	
		Filing Date October 31, 2003	Group Art Unit 2673

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
RO	AHH	Andriy Pavlovych, Wolfgang Stürzlinger: Less-Tap: A Fast and Easy-to-learn Text Input Technique for Phones. Graphics Interface 2003, 97-104 http://www.graphicsinterface.org/cgi-bin/DownloadPaper?name=2003/170/paper170.pdf
	AII	Scott MacKenzie, Hedy Kober, Derek Smith, Terry Jones, Eugene Skepner, LetterWise: prefix-based disambiguation for mobile text input, Proceedings of the 14th annual ACM symposium on User interface software and technology, November 11-14, 2001, Orlando, Florida
	AJJ	H. Kober, E. Skepner, T. Jones, H. Gutowitz, S. MacKenzie, 2001. Linguistically Optimized Text Entry on a Cell Phone. In Proceedings of the CHI 2001. http://www.eatoni.com/research/chi.pdf
	AKK	Mikael Goldstein and Didier Chincholle The Finger-Joint-Gesture Wearable Keypad. Ericsson Radio Systems.
	ALL	Rosenberg, R. (1998). Computing without Mice and Keyboards: Text and Graphic Input Devices for Mobile Computing. Ph.D. Thesis, Dept. of Computer Science, University College, London, 1998. http://www.obscure.org/rosenberg/
	AMM	MacKay, B., Dearman, D., Inkpen, K., and Watters, C. 2005. Walk 'n scroll: a comparison of software-based navigation techniques for different levels of mobility. In Proceedings of the 7th international Conference on Human-Computer interaction with Mobile Devices & Services (Salzburg, Austria, September 19 - 22, 2005). MobileHCI '05, vol. 111. ACM Press, New York, NY, 183-190. http://portal.acm.org/citation.cfm?id=1085808&coll=GUIDE&dl=GUIDE&CFID=66591340&CFTOKEN=6294934
	ANN	Kranz, M., Holleis, P., Schmidt, A. "DistScroll - a new one-handed interaction device". In Proceedings of the 5th International Workshop on Smart Appliances and Wearable Computing, June 10, 2005. http://www.hcilab.org/documents/DistScrollAnewOneHandedInteractionDevice-KranzHolleisSchmidt-IWSAWC2005.pdf
	AOO	Daniel Fällman, Andreas Lund, Mikael Wiberg, ScrollPad: Tangible Scrolling with Mobile Devices, Proceedings of the Proceedings of the 37th Annual Hawaii International Conference on System Sciences (HICSS'04) - Track 9, p.90286.3, January 05-08, 2004. http://portal.acm.org/citation.cfm?id=963347&coll=GUIDE&dl=GUIDE&CFID=66483658&CFTOKEN=36023921 http://daniel.fallman.org/resources/papers/fallman-hicss37.pdf
	APP	Chipman, L. E., Bederson, B. B., and Golbeck, J. A. 2004. SlideBar: analysis of a linear input device. Behav. Inf. Tech. 23, 1 (Jan. 2004), 1-9. http://portal.acm.org/citation.cfm?id=993182.993184# http://www.cs.umd.edu/Library/TRs/CS-TR-4471/CS-TR-4471.pdf
	AQQ	Orientation-based interaction for Mobile Devices. J. Darnauer, S. Garrity and T. Jim, Stanford University. http://hci.stanford.edu/srk/cs377a-mobile/project/final/darnauer-garrity-kim.pdf
	ARR	Rekimoto, J. Tilting operations for small screen interfaces. Proceedings of the 9th annual ACM symposium on User Interface software and technology, pp. 167-168, November 06-08, 1996, Seattle. http://portal.acm.org/citation.cfm?id=237115&coll=GUIDE&dl=GUIDE&CFID=66483658&CFTOKEN=36023921

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RO	ASS	Hinckley, K., Pierce, J., Horvitz, E., Sinclair, M. Foreground and Background Interaction with Sensor-enhanced Mobile Devices, ACM TOCHI (Transactions on Computer-Human Interaction) Special Issue on Sensor-Based Interaction, 12 (1), March 2005, pp. 31-52. http://portal.acm.org/citation.cfm?id=1057240&coll=GUIDE&dl=GUIDE&CFID=66591340&CFTOKEN=6294934
	ATT	Hinckley, K., Cutrell, E., Bathiche, S., and Muss, T. 2002. Quantitative analysis of scrolling techniques. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems: Changing Our World, Changing Ourselves (Minneapolis, Minnesota, USA, April 20 - 25, 2002). CHI '02. ACM Press, New York, NY, 65-72. http://doi.acm.org/10.1145/503376.503389
	AUU	Harrison, B. L., Fishkin, K. P., Gujar, A., Mochon, C., and Want, R. 1998. Squeeze me, hold me, tilt me! An exploration of manipulative user interfaces. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (Los Angeles, California, United States, April 18 - 23, 1998). C. Karat, A. Lund, J. Coutaz, and J. Karat, Eds. Conference on Human Factors in Computing Systems. ACM Press/Addison-Wesley Publishing Co., New York, NY, 17-24. http://portal.acm.org/citation.cfm?id=274647&coll=Portal&dl=GUIDE&CFID=66588306&CFTOKEN=73460863&CFID=66588306&CFTOKEN=73460863#
	AVV	Kiyokuni Kawachiya, Hiroshi Ishikawa, NaviPoint: an input device for mobile information browsing, Proceedings of the SIGCHI conference on Human factors in computing systems, p.1-8, April 18-23, 1998, Los Angeles, California, United States http://portal.acm.org/citation.cfm?id=274645&coll=Portal&dl=GUIDE&CFID=66588306&CFTOKEN=73460863
	AWW	Hinkley, K., Pierce, J., Sinclair, M., and Horvitz, E. Sensing Techniques for Mobile Interaction. UIST 2000: ACM Symposium on User Interface Software and Technology, pp. 91-100. http://portal.acm.org/citation.cfm?id=354417&coll=GUIDE&dl=GUIDE&CFID=66483658&CFTOKEN=36023921
	AXX	Baillie, L., Kunczler, H., and Anegg, H. 2005. Rolling, rotating and imagining in a virtual mobile world. In Proceedings of the 7th international Conference on Human Computer interaction with Mobile Devices & Services (Salzburg, Austria, September 19 - 22, 2005). MobileHCI '05, vol. 111. ACM Press, New York, NY, 283-286. http://doi.acm.org/10.1145/1085777.1085833
	AYY	Amy K. Karlson, Benjamin B. Bederson, John SanGiovanni, 2004. AppLens and LaunchTile: Two Designs for One-Handed Thumb Use on Small Devices http://hcil.cs.umd.edu/trs/2004-37/2004-37.html
	AZZ	Virpi Roto, Nokia Research. Browsing on Mobile Phones. http://www.research.att.com/~rjana/WF12_Paper1.pdf
	AAAA	Qualcomm.Slingshot http://wireless.ign.com/articles/657/657041p1.html
	ABBB	GamePad http://www.mobilemag.com/content/100/345/C5578/
✓	ACCC	Kyocera Candid KX16 http://www.mobilemag.com/content/100/340/C4392/

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RO	ADDD	XEG Mobile Phone Pad http://us.gizmodo.com/gadgets/cellphones/gaming-on-the-go-with-xeg-136414.php http://www.akihabaranews.com/en/news-10615-XEG%2Cthe+mobile+phone+pad.html
	AEEE	Samsung Game Pad http://www.cellphonemall.net/wireless/store/accessorydetail.asp?id=23198&phoneid=334
	AFFF	Thumbscript http://www.thumbscript.com/index.html http://www.thumbscript.com/howitworks.html http://www.thumbscript.com/technotes.html
	AGGG	Exideas http://www.exideas.com/ME/index.html http://www.exideas.com/ME/HardKey.html
	AHHH	NE-Ware http://www.n-e-ware.com/Downloads/KeyStick/330/KSUserManual330_01.pdf
	AIII	Synaptics http://www.synaptics.com/products/pdf/mobiletouch_pb.pdf
	AJJJ	Atrua: sensor company http://www.atrua.com/s-mobilephones.html
	AKKK	Varatouch: sensor company http://www.esato.com/news/article.php?id=388
	ALLL	Eleksen www.eleksen.com
	AMMM	SHARP Vodafone ZTCJ01 http://www.slashphone.com/93/3123.html
	ANNN	The GamePad http://www.kotaku.com/gaming/cell-phones/killer-cell-phone-game-controller-130968.php
	AOOO	Sony Clie game controller PEGA-GC10 http://www.palminfocenter.com/view_story.asp?ID=4295
	APPP	Bluetooth GPS http://mobilitytoday.com/news/005986/mobility_buyGPSnow_i-Blue_bluetooth_GPS
	AQQQ	Alphagrip http://www.alphagrips.com/AlphagripAG5UsersManual.pdf
	ARRR	Tegic - T9 http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%201.pdf http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%202.pdf http://www.tegic.com/pdfs/salessheets/T9%20Adaptive%20Text%20Input%20Sales%20Sheet%203.pdf http://www.tegic.com/pdfs/salessheets/Sloppy%20Type%20Sales%20Sheet.pdf
	ASSS	Zicorp - eZiTap http://www.zicorp.com/eZiTap.htm
✓	ATTT	Motorola - iTAP http://news.zdnet.co.uk/hardware/mobile/0,39020360,39118435,00.htm
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Other Documents (include Author, Title, Date, and Place of Publication)		
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RO	AUUU	DigitWireless: FastTap http://www.digitwireless.com/flash/download/fastap.pdf
	AVVV	Microth KeyWheel http://www.microth.com/circumscrip/overview.asp
	AWWW	Yuvee; special keypad layout www.yuvee.com http://www.yuvee.com/builtin1.shtml http://www.yuvee.com/built_in_b.shtml http://www.yuvee.com/testdrive2.shtml
	AXXX	Twiddler http://www.handykey.com/ http://www.handykey.com/Keymap.pdf
	AYYY	Sengital Ltd. Tilt sensor replacement for PDA http://sengital.manufacturer.globalsources.com/si/6008823523892/ProductDetail/PDA-keyboard/product_id-1001050135/action-GetProduct.htm
	AZZZ	Howard.co.kr - The mouse phone http://www.howard.co.kr/computer/mouse/mousephone.htm
	AAAAA	Nokia 6620 with a control stick http://nds2.nokia.com/files/support/nam/phones/guides/6620_US_en.PDF
	ABBBB	Sega into cell phones http://www.phoneynworld.com/newspage.aspx?n=1745
	ACCCC	Prevalent Devices LLC http://www.prevalentdevices.com/manual3-5-06.pdf
	ADDDD	M. Kolsch, M. Turk, 2002. Keyboards without Keyboards: A Survey of Virtual Keyboards. UCSB Technical Report 2002-21, July 12, 2002. http://www.cs.ucsb.edu/research/tech_reports/reports/2002-21.pdf
	AEEEE	Jeong-Hoon Shin and Kwang-Seok Hong. An improved alphanumeric input algorithm using gloves. http://www.complexity.org.au/conference/upload/shin01/shin01.pdf
	AFFFF	C. Metzger, M. Anderson, T. Starner, 2004. FreeDiger: A Contact-Free Device for Gesture Control. Eighth IEEE International Symposium on Wearable Computers (ISWC'04) pp. 18-21. http://www.wirelessrerc.gatech.edu/projects/development/D1files/iswc04-freedigiter.pdf
	AGGGG	Rakkolainen, I. (2003). MobiVR - a novel user interface concept for mobile computing. In: Bieber, K. & Kirste, T. (eds.), Proceedings of the 4th International Workshop on Mobile Computing, IMC 2003, 17-18 June 2003, Rostock, Germany, pp. 107-112. http://www.cs.tut.fi/~ira/IMC2003.pdf
	AHHHH	Lumsden, J., Gammell, A. (2004). Mobile Note Taking: Investigating the Efficacy of Mobile Text Entry. In Proc. of Mobile Human-Computer Interaction (MobileHCI 2004), Glasgow, UK, Sept. 2004: In S. Brewster and M. Dunlop (Eds.). Mobile Human-Computer-Interaction - MobileHCI 2004, Lecture Notes in Computer Science, Vol. 3160, Berlin: Springer, 156--168.
↓	AIIII	MacKenzie, I. S., & Soukoreff, R. W. Phrase sets for evaluating text entry techniques. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems - CHI 2003, pp. 754-755 New York: ACM

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RO	AJJJJ	MacKenzie, I. S. (2002). KSPC (keystrokes per character) as a characteristic of text entry techniques. Proceedings of the Fourth International Symposium on Human-Computer Interaction with Mobile Devices, pp. 195-210. Heidelberg, Germany: Springer-Verlag
	AKKKK	Soukoreff, R. W. and MacKenzie, I. S. (2004). Recent Developments in Text-Entry Error Rate Measurement. CHI 2004, Late Breaking Results Paper, Vienna Austria, April 24-29, 2004.
	ALLLL	Lee, S. and Hong S.H.. Chording as a Text Entry Method in Mobile Phones. In Proceedings of the MobileHCI 2004: 6th International Symposium, Glasgow, UK, September 13-16, 2004.
	AMMMM	Green, N., Kruger, J., Faldu, C., and St. Amant, R. 2004. A reduced QWERTY keyboard for mobile text entry. In CHI '04 Extended Abstracts on Human Factors in Computing Systems (Vienna, Austria, April 24 - 29, 2004). CHI '04. ACM Press, New York, NY, 1429-1432. http://portal.acm.org/citation.cfm?id=986082&coll=GUIDE&dl=GUIDE&CFID=66591340&CFTOKEN=6294934
	ANNNN	Partridge, K., Chatterjee, S., Sazawal, V., Borriello, G., and Want, R. TiltType: accelerometer-supported text entry for very small devices, Proceedings of the 15th annual ACM symposium on User interface software and technology, October 27-30, 2002, Paris, France
	AOOOO	Mikael Goldstein, Didier Chincholle, Morten Back (2000). Assessing Two New Wearable Input Paradigms: The Finger-Joint-Gesture Palm-Keypad-Glove-and-the-Invisible-Phone-Clock. Personal and Ubiquitous Computing, Volume 4, Issue 2/3.
	APPPP	Bartlett, J. F. 2000. Rock 'n' Scroll Is Here to Stay. IEEE Comput. Graph. Appl. 20, 3 (May. 2000), 40-45. http://portal.acm.org/citation.cfm?id=618728&coll=Portal&dl=GUIDE&CFID=66588306&CFTOKEN=73460863#
	AQQQQ	Eslambolchilar, P., Murray-Smith, R. (2004). Tilt-Based Automatic Zooming and Scaling in Mobile Devices - A state-space implementation. In Proc. of Mobile Human-Computer Interaction (MobileHCI 2004), Glasgow, UK, Sept. 2004: In S. Brewster and M. Dunlop (Eds.). Mobile Human-Computer-Interaction - MobileHCI 2004, Lecture Notes in Computer Science, Vol. 3160, Berlin: Springer, 120-131.
	ARRRR	Zhai, S., Smith, B.A., and Selker, T. Improving Browsing Performance: A study of four input devices for scrolling and pointing tasks, Proceedings of the IFIP TC13 International Conference on Human-Computer Interaction, p.286-293, July 14-18, 1997.
	ASSSS	Wobbrock, J. O., Forlizzi, J., Hudson, S. E. and Myers, B. A. WebThumb: interaction techniques for small-screen browsers. Proc. UIST, ACM Press (2002), 205-208.
	ATTTT	Lee, S., Hong, S. H., and Jeon, J. W. 2002. Designing a universal keyboard using chording gloves. SIGCAPH Comput. Phys. Handicap. , 73-74 (Jun. 2002), 142-147. http://doi.acm.org/10.1145/960201.957230
	AUUUU	Pirhonen, A., Brewster, S., and Holguin, C. 2002. Gestural and audio metaphors as a means of control for mobile devices. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems: Changing Our World, Changing Ourselves (Minneapolis, Minnesota, USA, April 20 - 25, 2002). CHI '02. ACM Press, New York, NY, 291-298. http://doi.acm.org/10.1145/503376.503428
↓	AVVVV	Kjeldskov, J. and Graham, C. (2003). A Review of Mobile HCI Research Methods. In Proc. of Mobile Human-Computer Interaction (MobileHCI 2003), Udine Italy, Sept. 2003: In L. Chittaro (Ed.). Mobile Human-Computer-Interaction - MobileHCI 2003, Lecture Notes in Computer Science, Vol. 2795, Berlin: Springer, 317-335.

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RO	AV	Donner, J. (2005). Research Approaches to Mobile Use in Developing World: A Review of the Literature. International Conference on Mobile Communication and Asian Modernities City University of Hong Kong, June 7-8 2005.
	AW	Min, Lin and Sears, Andrew (2005). Graphics Matter: A Case Study of Mobile Phone Keypad Design for Chinese Input. CHI 2005, Late Breaking Results: Posters, Portland, Oregon. April 2-7, 2005.
	AX	MacKenzie, S., & Soukoreff, W. (2002). Text entry for mobile computing: Models and methods, theory and practice. Human-Computer Interaction. 17. p. 147--198. http://www.yorku.ca/mack/hci3-2002.pdf
	AY	Starner, T. "Keyboards Redux: Fast Mobile Text Entry". Pervasive Computing, July - September 2004, Pp. 97-101. http://www.cc.gatech.edu/fac/Thad.Starner/p/magazine/2004-3-keyboard-redux.pdf
	AZ	Lee Butts, Andy Cockburn, An evaluation of mobile phone text input methods, Third Australasian conference on User interfaces, p.55-59, January 01, 2002, Melbourne, Victoria, Australia http://www.crpit.com/confpapers/CRPITV7Butts.pdf
	AAA	Chording and Tilting - Daniel Wigdor (thesis) - 2004- describes chordtap and tiltap (also covered in depth in the paper-referenced below)- http://www.dgp.toronto.edu/~dwigdor/research/thesis/submitted.html
	ABB	Wigdor, D. and Balakrishnan, R. "A Comparison of Consecutive and Concurrent Input Text Entry Techniques for Mobile Phones", Conference on Human Factors, April 24-29, 2004, Volume 6, Number 1, pp. 81-88 http://portal.acm.org/citation.cfm?id=985703 http://www.dgp.toronto.edu/~ravin/papers/chi2004_concurrenttextinput.pdf
	ACC	Oniszcak, A., & MacKenzie, I. S. (2004). A comparison of two input methods for keypads on mobile devices. Proceedings of NordiCHI 2004, pp. 101-104. New York: ACM. http://www.yorku.ca/mack/nordichi2004.pdf
	ADD	K. Lyons. Everyday wearable computer use: A case study of an expert user. In Proceedings of Mobile HCI 2003, pages 61-75, 2003. http://www.cc.gatech.edu/ccg/publications/everyday_case.pdf
	AEE	K. Lyons, T. Starner, D. Plaisted, J. Fusia, A. Lyons, A. Drew, E. W. Looney, 2004. "Twiddler Typing: One-Handed Chording Text Entry for Mobile Phones," Proc. Conf. Human Factors in Computing Systems (SIGCHI 01), ACM Press, 2004, pp. 671-678. http://www.cc.gatech.edu/fac/Thad.Starner/p/030_10_MTE/twiddler-chi04.pdf
	AFF	Daniel Wigdor, Ravin Balakrishnan, TiltText: using tilt for text input to mobile phones, Proceedings of the 16th annual ACM symposium on User interface software and technology, p.81-90, November 02-05, 2003, Vancouver, Canada http://portal.acm.org/citation.cfm?id=964705 http://www.dgp.toronto.edu/~ravin/papers/uist2003_tilttext.pdf
↓	AGG	M. D. Dunlop and A. Crossan, "Dictionary based text entry method for mobile phones", published in Brewster, S.A., and Dunlop, M.D., (editors). Proceedings of Second Workshop on Human Computer Interaction with Mobile Devices, August 1999. http://www.cis.strath.ac.uk/~mdd/research/publications/99dunlopcrossan.pdf

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RO	AWWWV	Kjeldskov, J. Stage, J. (2004). New Techniques for Usability Evaluation of Mobile Systems. International Journal of Human-Computer Studies, May 2004, 60 (5-6): 599--620.

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RO	AA	2003/020692	1/30/2003	Griffin, et al.			
↓	AB	2003/193418	10/16/2003	Shi			
	AC	2002/163504	11/7/2002	Pallakoff			
	AD	2003/169188	9/11/2003	Chang et al.			
↓	AE	2003/061103	3/27/2003	Kanai			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
RO	AL	1103883	5/30/2001	EPO				
RO	AM	0585730	3/9/1994	EPO				
RO	AN	03/042805	5/22/2003	WIPO				
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	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature /Ricardo Osorio/	Date Considered 10/01/2006
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10/31/2003

Sheet 1 of 2

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16300-002001	Application No. to be assigned
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Beth Marcus, et al	
		Filing Date October 31, 2003	Group Art Unit to be assigned

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RO	AA	4,793,312	12/27/1988	Doinaga et al.			
	AB	4,867,028	09/19/1989	Peter S. Jones			
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
	AW						Yes	No

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Substitute Disclosure Form (PTO-1449)

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		Filing Date October 31, 2003	Group Art Unit to be assigned

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RO	AX	Buxton, "A Directory of Sources for Input Technologies", 10/1/2003, http://www.billbuxton.com/InputSources.html
	AY	"Introducing the Dvorak Keyboard", http://www.mwbrooks.com/dvorak/
	AZ	Innovative Ergonomic Solutions, Cirque Pocket Keyboard, http://www.iesproducts.com/key-misc-pocket.html
	AAA	Buxton, "Human Input to Computer Systems: Theories, Techniques and Technology", http://billbuxton.com/inputManuscript.html
	ABB	Buxton, "An Introduction to Human Input to Computers", 6 April 1999, http://www.billbuxton.com/input01.Introduction.pdf
	ACC	Unidentified and Undated Document discussing alternative designs to QWERTY Keyboard, pages 2-10
	ADD	
V	AEE	

Examiner Signature /Ricardo Osorio/	Date Considered 10/01/2006
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